## Fluency

|  | A jug contains some milk. <br> Josh pours $1 / 2$ of the milk into a glass. | Use diagrams to show <br> what happens when <br> you try to add: |
| :--- | :--- | :--- |
| What fraction of the milk is left? | $1 / 5+2 / 10$ |  |

## Work out the following:

1. $3 / 4+2 / 5$
2. $10 / 12-1 / 3$
3. $6 / 8+3 / 5$
4. $1 / 8-3 / 4$
5. $3 / 7-1 / 5$
6. $2 / 10+3 / 8$
$7.4^{4 / 9}+2^{5} / 6$
7. $5^{3 / 7}-2^{6} / 5$

| Reasoning |  |  |
| :---: | :---: | :---: |
| Bashir says: | Emily says: | Rajesh doesn't |
| "I do not need to do | "When you add fractions | understand why the |
|  | together the answer is actually | denominator doesn't |
| calculations to solve | smaller because when the | fractions but the |
| $4 / 8+2 / 4 "$ | numerator is a bigger number | numerator does. |
| /8 + $/ 4$ | the piece is actually smaller." |  |
| Do you agree? | What mistake has Emily made? | Can you explain why? |
| Explain how you know. | Explain your answer using a diagram. |  |

## Problem Solving

If the answer to a word problem involving subtracting fractions with different denominators is:

$$
14 / 32
$$

What could the question be?

Katie subtracted $3 / 5$ away from a fraction and her answer was $8 / 45$.

What was the original question?

